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STEP

AUTHOR:

Steiner, Aleksa, Professor

TITLE:

Effect of the scattering of gamma and X-rays on the dimensioning of shielding

PERIODICAL:

Tehnika, no. 11, 1962, 2129-2136

Yugoslavia

TEXT:

A survey is given of the available information in this field. The author discusses first the case of narrow monoenergetic gamma and X-ray beams, dealing successively with the measurement of the total attenuation of intensity on passing across matter, the cross-section, the linear total attenuation factor, the calculation of total attenuation, the mass factor of total attenuation, and the shares of the effect of individual reactions (Compton effect, pair formation, Rayleigh scattering, nuclear photoeffect, bremsstrahlung) on the value of total attenuation. When discussing the broad monoenergetic beams, the author deals with the build-up factor in general and for the intensity, dose and energy, and finally with differences in the definitions of this factor, and some

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Effect of the scattering ...

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of its properties. There are 6 figures and 11 references.

ASSOCIATION:

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